

Permit #: 20076 Date Issued: 6-18-93
 County: Bates Date Cancelled: _____
 CONFIDENTIAL UNTIL: _____ Date Plugged: 6-21-93

COMMENTS:

OGC FORMS	Date Received
1	
2	
3	6-14-93
3i	
4	
4i	
5	8-2-93
6	
7	8-2-93
8	
11	
12	
Misc. Form 2	

	TYPE	ID #	Date Received
Logs	drillers		
Samples	chip core		
Analyses	water		
	core		

Additional Submitted Data:

Additional Submitted Data:



MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI OIL AND GAS COUNCIL

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

RECEIVED
JUN 14 1993
FORM OGC-3

APPLICATION TO DRILL DEEPEN PLUG BACK FOR AN OIL WELL OR GAS WELL

MO Oil & Gas Council

NAME OF COMPANY OR OPERATOR: Colt Energy, Inc. DATE: 6-10-93

ADDRESS: P.O. Box 388 CITY: Iola STATE: KS ZIP CODE: 66749

DESCRIPTION OF WELL AND LEASE

NAME OF LEASE: Karlin-Hardin WELL NUMBER: 5-22 ELEVATION (GROUND): 851

WELL LOCATION (GIVE FOOTAGE FROM SECTION LINE):
257 FT. FROM (N)(S) SECTION LINE 2365 FEET FROM (E)(W) SECTION LINE

WELL LOCATION: SECTION 22 TOWNSHIP 41N RANGE 33W COUNTY Bates

NEAREST DISTANCE FROM PROPOSED LOCATION TO PROPERTY OR LEASE LINE: 1600 FEET

DISTANCE FROM PROPOSED LOCATION TO NEAREST DRILLING, COMPLETED OR APPLIED — FOR WELL ON THE SAME LEASE: 165 FEET

PROPOSED DEPTH: 650 DRILLING CONTRACTOR, NAME AND ADDRESS: Evans Energy Deve., Inc. ROTARY OR CABLE TOOLS: Rotary APPROX. DATE WORK WILL START: 6-18-93

NUMBER OF ACRES IN LEASE: 2080 NUMBER OF WELLS ON LEASE, INCLUDING THIS WELL, COMPLETED IN OR DRILLING TO THIS RESERVOIR: 1
NUMBER OF ABANDONED WELLS ON LEASE: 0

IF LEASE PURCHASED WITH ONE OR MORE WELLS DRILLED, FROM WHOM PURCHASED?
NAME: _____ ADDRESS: _____ NO. OF WELLS: PRODUCING 0
INJECTION 0
INACTIVE 0
ABANDONED 0

STATUS OF BOND: SINGLE WELL AMOUNT \$ _____ BLANKET BOND AMOUNT \$ 80,000 ON FILE ATTACHED

REMARKS: (IF THIS IS AN APPLICATION TO DEEPEN OR PLUG BACK, BRIEFLY DESCRIBE WORK TO BE DONE, GIVING PRESENT PRODUCING ZONE AND EXPECTED NEW PRODUCING ZONE; USE BACK OF FORM IF NEEDED.)

PROPOSED CASING PROGRAM				APPROVED CASING — TO BE FILLED IN BY STATE GEOLOGIST			
AMOUNT	SIZE	WT/FT	CEM.	AMOUNT	SIZE	WT/FT	CEM.
30	6 5/8	17	6SXS	"	"	"	"
650	2 7/8	6.4	60SXS	"	"	"	"

I, the undersigned, state that I am the Agent of the Colt Energy, Inc. (company), and that I am authorized by said company to make this report, and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct, and complete to the best of my knowledge.

SIGNATURE: [Signature] DATE: 6-18-93

PERMIT NUMBER: #20076 APPROVAL DATE: 6/18/93

APPROVED BY: [Signature] DRILLER'S LOG REQUIRED E-LOGS REQUIRED IF RUN
 CORE ANALYSIS REQUIRED IF RUN DRILL STEM TEST INFO. REQUIRED IF RUN
 SAMPLES REQUIRED SAMPLES NOT REQUIRED
 WATER SAMPLES REQUIRED AT _____

NOTE ▶ THIS PERMIT NOT TRANSFERABLE TO ANY OTHER PERSON OR TO ANY OTHER LOCATION

APPROVAL OF THIS PERMIT BY THE OIL AND GAS COUNCIL DOES NOT CONSTITUTE ENDORSEMENT OF THE GEOLOGIC MERITS OF THE PROPOSED WELL NOR ENDORSEMENT OF THE QUALIFICATIONS OF THE PERMITTEE.

I _____ of the _____ Company confirm that an approved drilling permit has been obtained by the owner of this well. Council approval of this permit will be shown on this form by presence of a permit number and signature of authorized council representative.

DRILLER'S SIGNATURE: _____ DATE: _____

W. C. LETHCHO
COUNTY ENGINEER & SURVEYOR
Bates County Court House
BUTLER, MO. 64730
Phone 679-4031

~~SECTION LINE~~

JUNE 2, 1993

WELL REFERENCE TIES
SECTION 22, TOWNSHIP 41 NORTH, RANGE 33 WEST
BATES COUNTY, MISSOURI

SHEET 1 OF 2

FOR: COLT ENERGY, INC.
4500 COLLEGE BLVD SUITE 308
OVERLAND PARK, KS 66211

ATTN: JOHN GOLSON 913-451-3807



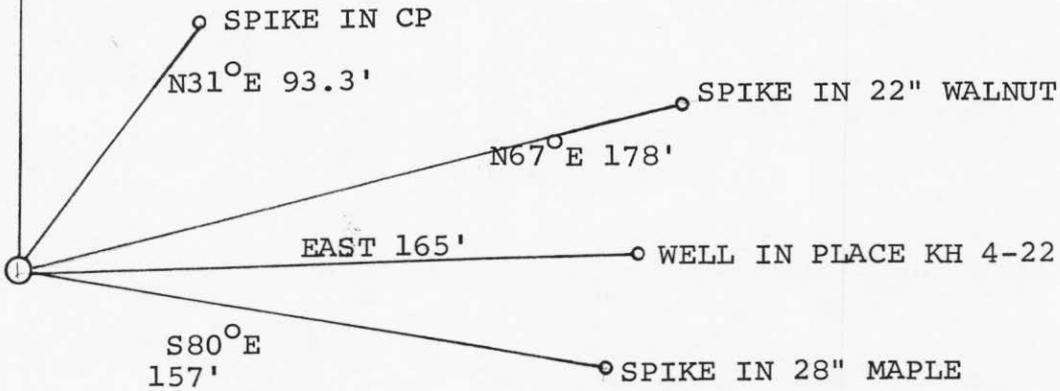
1"=50'

MAG BRGS

8° EAST DECL

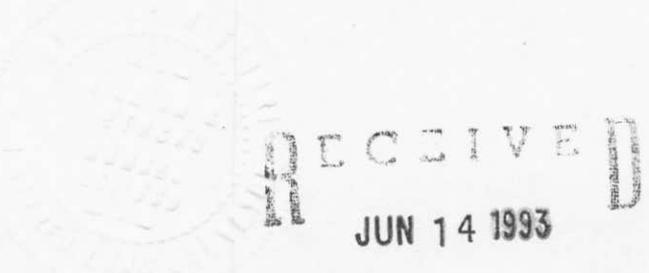
257'

PROPOSED
WELL
KH 5-22



THIS IS TO CERTIFY THE REFERENCE TIES SHOWN ARE
IN ACCORDANCE WITH CURRENT MINIMUM STANDARDS.

[Signature] LS-1539



MO Oil & Gas Council

Co. Road

15 14
22 23

65-06-6



1" = 400' ±
T41N R33W
Sheet 2 of 2
Tax Map
06-5

257' ±
PROPOSED
KH-5-22

2365' ±

511.6 Ac.(c)

WILLIAM C. LETHCHO LS-1539
BATES COUNTY SURVEYOR
6-2-93

Section 14

3
80.0 Ac.
77.6 Ac.(c)

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MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI OIL AND GAS COUNCIL
WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

Form OGC-5

NEW WELL WORKOVER DEEPEN PLUG BACK INJECTION SAME RESERVOIR DIFFERENT RESERVOIR OIL GAS DRY

OWNER: **Colt Energy, Inc.** ADDRESS: **P.O. Box 388, Iola, KS 66749**

LEASE NAME: **Karlin-Hardin** WELL NUMBER: **5-22**

LOCATION: **257 FNL 2365 FEL** SEC. TWP. AND RANGE OR BLOCK AND SURVEY: **22-41-33**

COUNTY: **Bates** PERMIT NUMBER (OGC-3 OR OGC-31): **20076**

DATE SPUDDED: **6-18-93** DATE TOTAL DEPTH REACHED: **6-21-93** DATE COMPLETED READY TO PRODUCE OR INJECT: **----** ELEVATION (DF, RKR, RT, OR Gr.): **FEET 851** ELEVATION OF CASING HD. FLANGE: **----** FEET

TOTAL DEPTH: **302** PLUG BACK TOTAL DEPTH: **Plugged**

PRODUCING OR INJECTION INTERVAL(S) FOR THIS COMPLETION: **-----** ROTARY TOOLS USED (INTERVAL): **Surface** TO **302** CABLE TOOLS USED (INTERVAL): **NO**

DRILLING FLUID USED: **-----** WAS THIS WELL DIRECTIONALLY DRILLED?: **No** WAS DIRECTIONAL SURVEY MADE?: **-----** WAS COPY OF DIRECTIONAL SURVEY FILED?: **-----** DATE FILED: **-----**

TYPE OF ELECTRICAL OR OTHER LOGS RUN (LIST LOGS FILED WITH THE STATE GEOLOGIST): **Drillers Log** DATE FILED: **7-30-93**

CASING RECORD

CASING (REPORT ALL STRINGS SET IN WELL - CONDUCTOR, SURFACE, INTERMEDIATE, PRODUCING, ETC.)

PURPOSE	SIZE HOLE DRILLED	SIZE CASING SET	WEIGHT (LB. FT)	DEPTH SET	SACKS CEMENT	AMOUNT PULLED
Surface	9 5/8	7"	17#	20	6	-0-

TUBING RECORD

LINER RECORD

SIZE	DEPTH SET	PACKER SET AT	SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN
IN.	FEET	FEET	INCH	FEET	FEET		FEET

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

NUMBER PER FOOT	SIZE AND TYPE	DEPTH INTERVAL	AMOUNT AND KIND OF MATERIAL USED	DEPTH INTERVAL
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INITIAL PRODUCTION

DATE OF FIRST PRODUCTION OR INJECTION: _____ PRODUCING METHOD (INDICATE IF FLOWING, GAS LIFT, OR PUMPING - IF PUMPING, SHOW SIZE AND TYPE OF PUMP): _____

DATE OF TEST	HOURS TESTED	CHOKE SIZE	OIL PRODUCED DURING TEST	GAS PRODUCED DURING TEST	WATER PRODUCED DURING TEST	OIL GRAVITY
			bbls.	MCF	bbls.	API (CORR.)
TUBING PRESSURE	CASING PRESSURE	CALCULATED RATE OF PRODUCTION PER 24 HOURS	OIL	GAS	WATER	GAS OIL RATIO
			bbls.	MCF	bbls.	

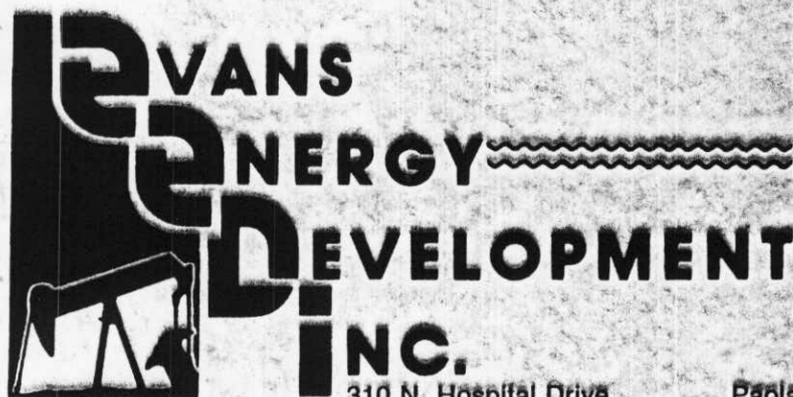
DISPOSITION OF GAS (STATE WHETHER VENTED, USED FOR FUEL OR SOLD)

METHOD OF DISPOSAL OF MUD PIT CONTENTS: **Pumped out, Pushed pit in**

CERTIFICATE: I, THE UNDERSIGNED, STATE THAT I AM THE **Agent** OF THE **Colt Energy, Inc.** COMPANY, AND THAT I AM AUTHORIZED BY SAID COMPANY TO MAKE THIS REPORT, AND THAT THIS REPORT WAS PREPARED UNDER MY SUPERVISION AND DIRECTION AND THAT THE FACTS STATED THEREIN ARE TRUE, CORRECT AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DATE: **7-30-93** SIGNATURE: *Dennis Keshner* MO Oil & Gas Council

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310 N. Hospital Drive

Paola, Kansas 66071

(913) 294-9083

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Custom
oil & gas
drilling
Lease Development

WELL LOG
Karlin - Hardin - #5-22
Colt Energy, Inc.
Permit #20076
June 18 - June 21, 1993

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
10	soil & clay	10
23	shale	33
4	lime	37
17	shale	54
2	coal	56
3	shale	59
14	lime	73
14	shale	87
6	lime	93
34	shale	127
17	lime	144
7	shale	151
2	lime	153
2	shale	155
1	lime	156
9	shale	165
8	sand & shale	173-10% sand, fair bleeding, 90% shale
1	sand & shale	714-50% sand, 50% shale
13	shale	187
2	sand	189-brown, fair bleeding
10	sand & shale	199-15% fair bleeding sand, 85% shale
2	sand	201-good bleeding
6	sand & shale	207
2	sand	206-good bleeding
6	shale & silt	215
3	sand & shale	218-40% good bleeding sand, 60% shale
9	shale & silt	227
8	sand & shale	235-60% good bleed, 40% silty shale
8	shale & silt	243
1	lime	244
11	shale	255-dark
2	lime	257
11	shale	268-dark
10.5	shale	278.5-very light gray
.5	sand & shale	779-20% bleeding sand, 80% shale
.5	shale	279.5
.3	sand	279.8-fair bleeding
.5	shale	280.3
1.7	sand	282-good bleeding
1.2	sand	283.2-limey, fair bleeding

Karlin - Hardin - #5-22 (con't)

.8	shale	284
1.1	sand	285.1-20% laminated with shale, good bleeding
.8	shale	285.9
.4	sand	286.3-good bleeding
.2	shale	286.5
.1	sand	286.6
.2	shale	286.8
.4	lime	287.2
4.8	shale	292-med. gray
4	shale	296-dark
1	coal	297
5	shale	302-TD

Set 20.0' of 7" T & C Surface Casing.

This well was plugged with cement from 302' to the surface from 12:00 noon - 1:00 p.m. on 06/21/93.

Cattleman Core Times

	<u>Min.</u>	<u>Sec.</u>
280	1	05
281	1	05
282	1	00
283	1	00
284	1	05
285	1	00
286	1	15
287	1	20
288	1	20
289	1	25
290	1	35
291	1	20
292	2	15
293	1	40
294	1	45
295	1	45
296	1	45
297	1	15
298	2	05
299	1	50

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MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI OIL AND GAS COUNCIL
PLUGGING RECORD

FORM OGC-7

OWNER Colt Energy, Inc.		ADDRESS P.O. Box 388, Iola, KS 66749	
NAME OF LEASE Karlin-Hardin		WELL NUMBER 5-22	PERMIT NUMBER (OGC-3 OR OGC-31 NUMBER) 20076
LOCATION OF WELL 257FNL 2365FEL		SEC. TWP. RANG OR BLOCK & SURVEY 22-41-33	COUNTY Bates
APPLICATION TO DRILL THIS WELL WAS FILED IN NAME OF Colt Energy, Inc.		HAS THIS WELL EVER PRODUCED OIL OR GAS? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CHARACTER OF WELL AT COMPLETION (INITIAL PRODUCTION) OIL (BBL/DAY) _____ GAS (MCF/DAY) _____
DATE ABANDONED 6-21-93	TOTAL DEPTH 302	AMOUNT WELL PRODUCING PRIOR TO ABANDONMENT OIL (BBL/DAY) _____ GAS (MCF/DAY) _____	WATER (BBL/DAY) _____

Name of each formation containing oil or gas. Indicate which formation open to well bore at time of abandonment.	Fluid content of each formation	Depth interval of each formation	Size, kind, & depth of plugs used, giving amount cement.
Squirrel	Oil	279-286	Cemented Well from 302 to Surface using 42sxs cement.

SIZE PIPE	PUT IN WELL (FT)	PULLED OUT (FT)	LEFT IN WELL (FT)	GIVE DEPTH AND METHOD OF PARTING CASING (SHOT, RIPPED, ETC.)	PACKERS AND SHOES
7"	20'	3'	17'	Cut surface pipe off below plow depth.	

WAS WELL FILLED WITH MUD-LADEN FLUID?	INDICATE DEEPEST FORMATION CONTAINING FRESH WATER
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NAME AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE

NAME	ADDRESS	DIRECTION FROM THIS WELL

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METHOD OF DISPOSAL OF MUD PIT CONTENTS	Pumped Pit out - Pushed pit in	MO Oil & Gas Council
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NOTE: FILE THIS FORM IN DUPLICATE WITH (USE REVERSE SIDE FOR ADDITIONAL DETAIL)

CERTIFICATE ▶ I, the undersigned, state that I am the Agent of the Colt Energy, Inc. (Company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct, and complete to the best of my knowledge.

SIGNATURE: Connie Kesh DATE: 7-30-93

STATION Ottawa OPERATOR Fred Mader

Ticket 88593

CONSOLIDATED OIL WELL SERVICES, INC.

P.O. Box 884
Chanute, Kansas 66720
Phone (316) 431-9210

Date <u>6-21-93</u>	Customer's Acct. No. <u>1828</u>	Sec. <u>22</u>	Twp. <u>71N</u>	Range <u>33W</u>	Well No. & Farm <u>Karlin Hardin 5-22</u>	Place or Destination <u>Amsterdam</u>
Charge To <u>Colt Energy Inc.</u>				Owner		County <u>Bates</u>
Mailing Address <u>P.O. Box 388</u>				Contractor <u>Evans Energy Dev.</u>		State <u>MO</u>
City & State <u>Iola, Ks. 66749</u>				Well Owner Operator Contractor		

CEMENTING SERVICE DATA

TYPE OF JOB	CASING	HOLE DATA		PLUGS AND HEAD		PRESSURE		CEMENT LEFT IN CASING	
Surface	New	Bore Size	<u>5 5/8</u>	Bottom		Circulating		Requested	
Production	Used	Total Depth	<u>302</u>	Top		Minimum		Necessity	
Squeeze	Size			Head		Maximum		Measured	
Pumping	<u>Plug</u>	Weight		Cable Tool	FLOAT EQUIPMENT	Sacks Cement	<u>42</u>		
Other	Depth			Rotary		Type & Brand	<u>Portland A - Poz Mix</u>		
	Type					Admixes	<u>6% Gel</u>		

FRACTURING - ACIDIZING SERVICE DATA

Type of Job	At Intervals of						
Bbls Fracturing Fluid	Breakdown Pressure from		psi to		psi		
Treating Pressures: Maximum	psi	Minimum	psi	Avg. Pump Rate	GPM/BPM	Close In	psi
Sand	Gals. Treating Acid		Type		Open Hole Diameter		
Well Treating Through: Tubing	Casing	Annulus	Size	Weight			
Remarks:							
No. Perforations	Pay Formation Name			Depth of Job		Ft.	

CEMENTING				INVOICE SECTION				FRACTURING - ACIDIZING			
Pumping Charge	<u>Plug 1 well</u>	Office \$		Pumping Charge		Office \$		Pumping Charge		Office \$	
Pumping Charge	@	Use \$	<u>325.00</u>	Pumping Charge	@	Use \$		Pumping Charge	@	Use \$	
<u>42</u> Sacks Bulk Cement	@		<u>220.50</u>	12x30 Sand	@			12x30 Sand	@		
Ton Mileage on Bulk Cement <u>60</u>	@		<u>60.00</u>	10x20 Sand	@			10x20 Sand	@		
<u>35x</u> Premium Gel	@		<u>20.90</u>	x Sand	@			x Sand	@		
Flo-Seal	@			Ton Mileage	@			Ton Mileage	@		
Calcium Chloride	@			Gals., Acid	@			Gals., Acid	@		
Plug	@			Chemicals	@			Chemicals	@		
Equipment	@				@				@		
	@				@				@		
	@				@				@		
	@				@				@		
	@				@			Potassium Chloride	@		
	@				@			Rock Salt	@		
Granulated Salt	@				@			Water Gel	@		
Transport Truck (Hrs.)	@			Transport Truck (Hrs.)	@			Transport Truck (Hrs.)	@		
Vac Truck (Hrs.)	@			Vac Truck (Hrs.)	@			Vac Truck (Hrs.)	@		
<u>Rig Water</u>	@				@				@		
		Tax	<u>15.44</u>							Tax	
A Finance Charge computed at 1 1/4% per month (annual percentage rate of 21%) will be added to balance over 30 days.			Total \$	<u>641.64</u>	136856			Total \$			

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